

Eli Whitney.

(To all to whom these presents shall come, greeting:

I certify, That the annexed Writings and Drawings are true copies of original papers deposited in this Office by Eli Whitney and still remaining therein:

In faith whereof, I James Madison, Secretary for the Department of State of the United States of America, have signed these presents, and caused the Seal of my Office to be affixed hereto, at the City of Washington, this Twenty fifth day of November, A.D. 1803, and in the Twenty eighth year of the Independence of the said States.

James Madison.

Description of a New Invented Cotton Gin; or Machine for cleaning and separating Cotton from its Seeds.

This Machine may be described under five divisions, corresponding to its five principal parts: viz. 1st, The frame; 2, the cylinder; 3, the breastwork; 4, the clearer; and 5, the hopper.

1st. The frame, by which the whole work is supported and kept together, ought to be made of well seasoned timber, so that it may be firm and steady, and never be come loose in the joints. Scantling four inches by three, will perhaps be stuff, of a suitable size anyway. The frame should be of a square or parallelogramic form, the width must answer to the length of the cylinder and the height and length may be proportioned as circumstances shall render convenient.

In the Drawing annexed, Fig. 1, is a section of the machine. A represents the cylinder, B, the breastwork, C, the clearer, and D, the hopper.

II. The cylinder is of wood; its form is perfectly described by its name, and its dimensions may be from six to nine inches diameter, and from two to five feet in length. This cylinder is placed horizontally across the frame, in such manner as to give room for the clearer on one side of it, and the hopper on the other, as in Fig.

Its height, if the machine is worked by hand should be about three feet four inches; otherwise it may be regulated by convenience. In the cylinder is fixed and found, so large as to turn in the lathe without quivering. The axis may